

Fig. 1

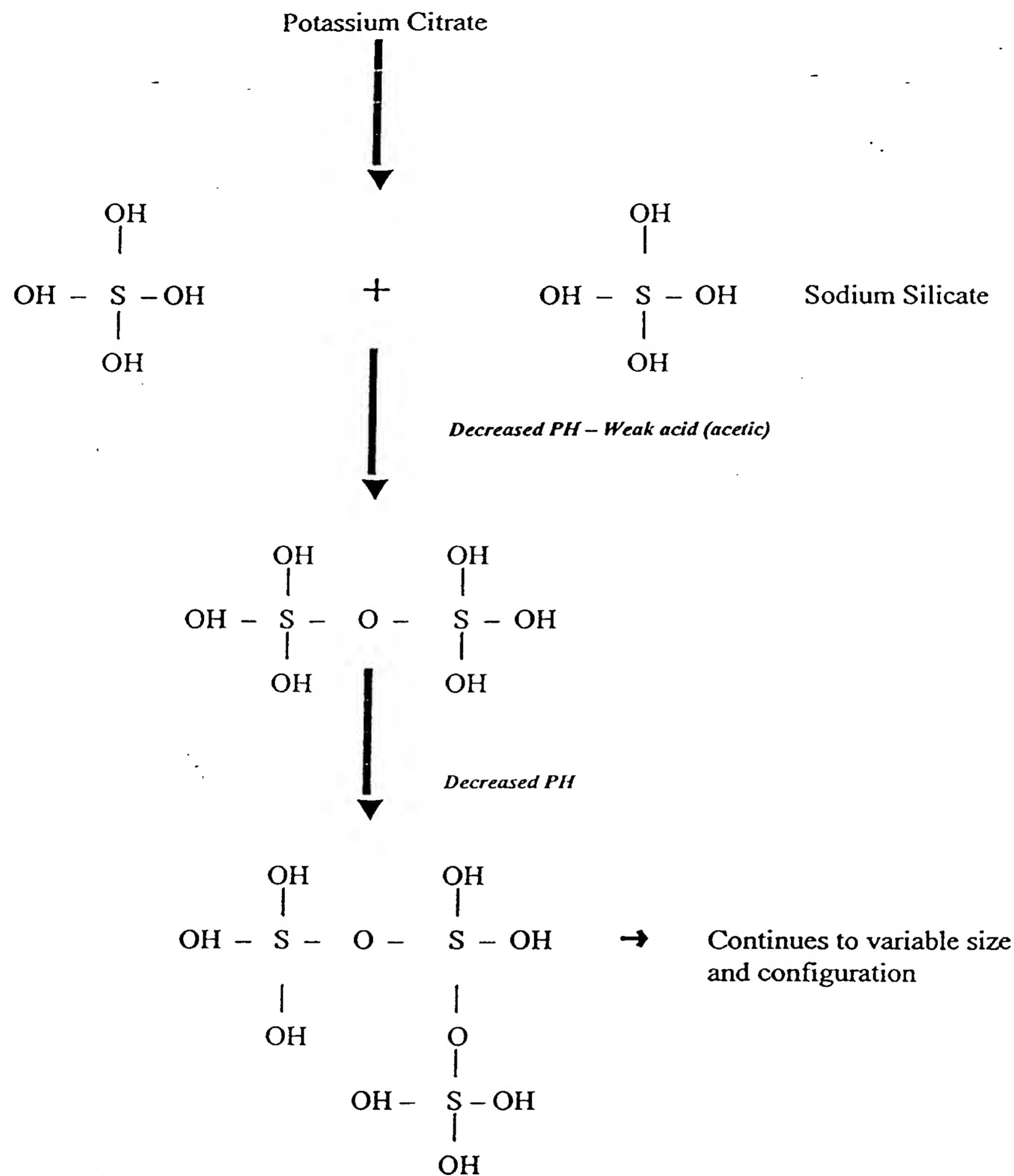


Fig. 2

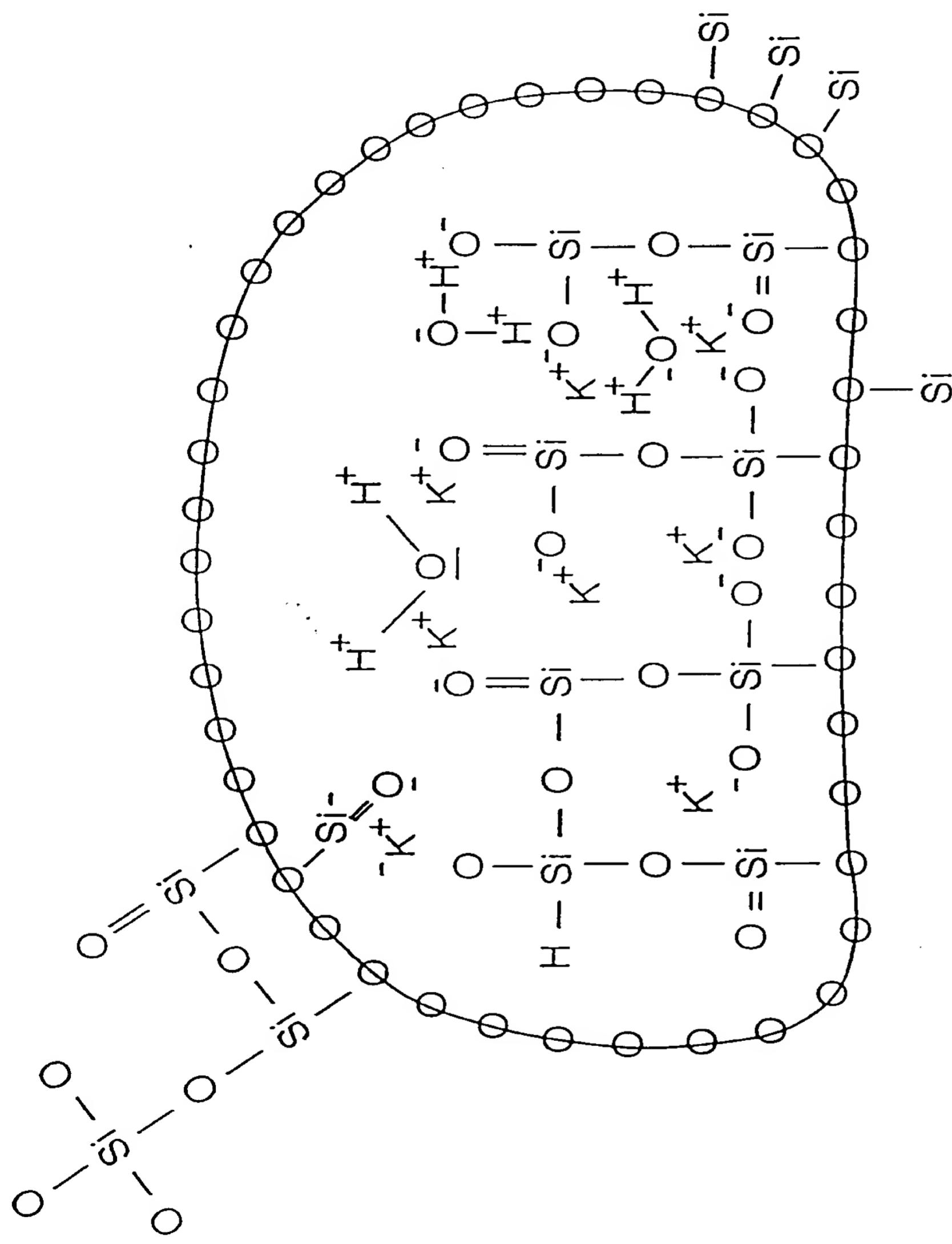


FIG. 3

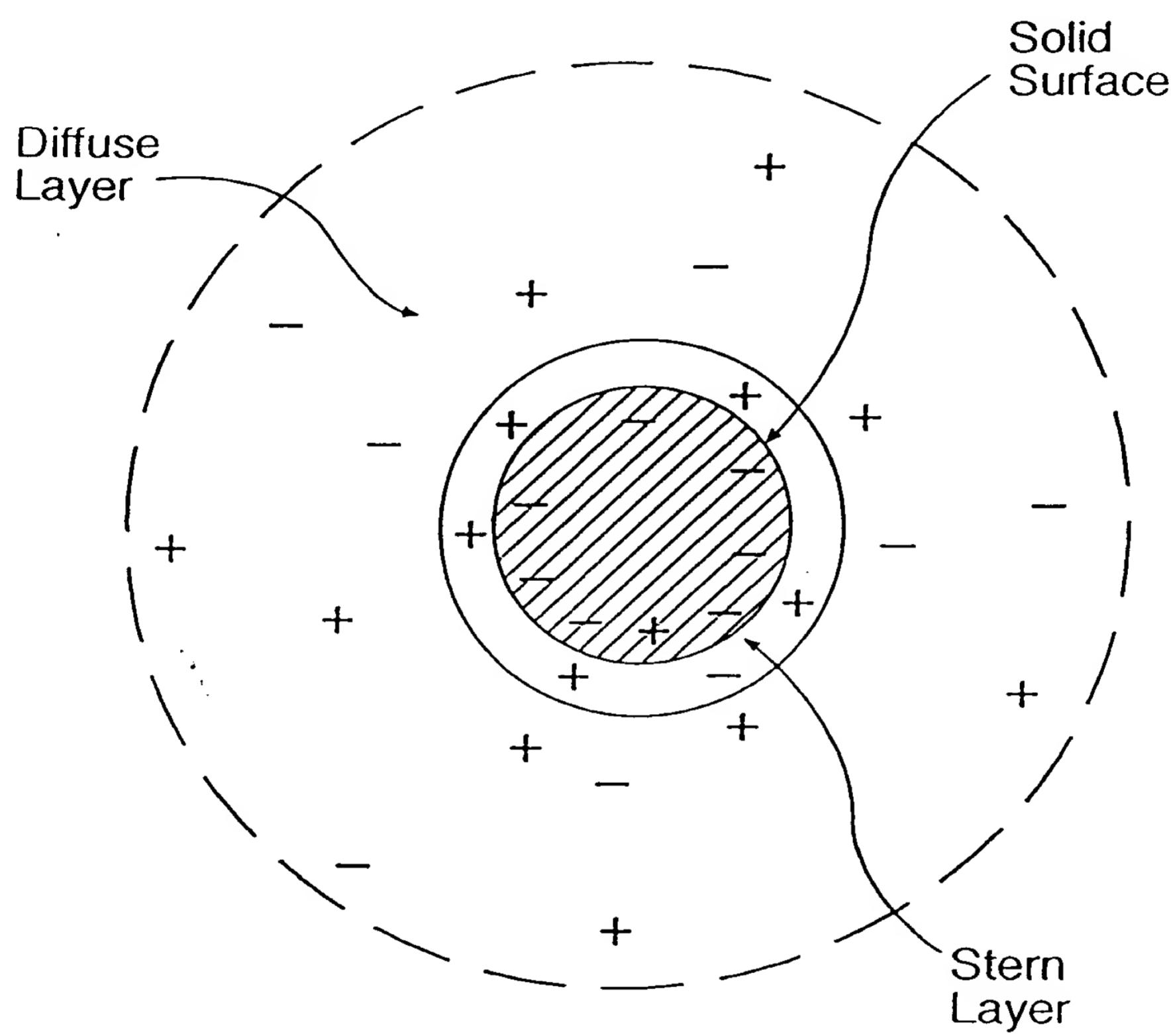


FIG. 4

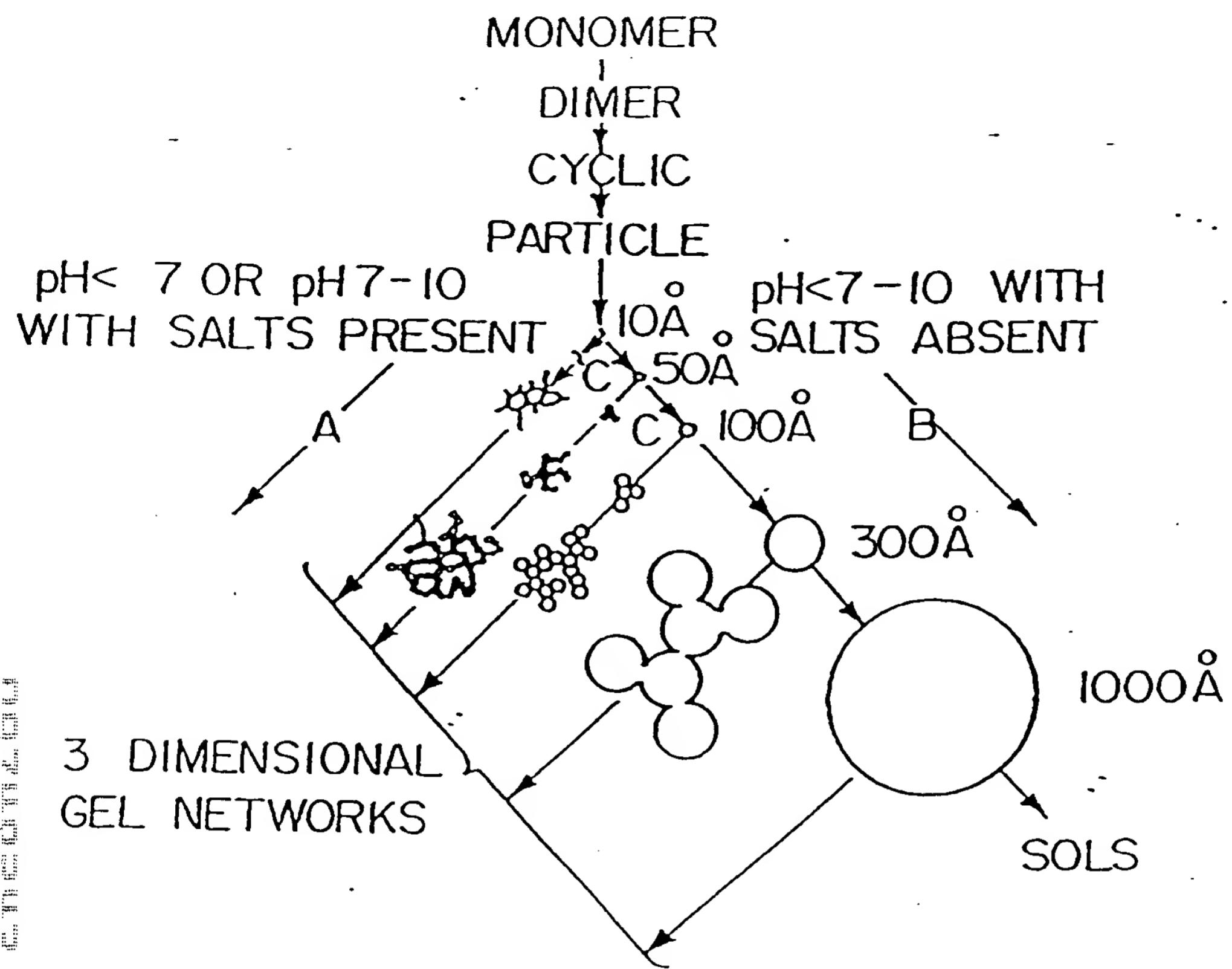


FIG. 5

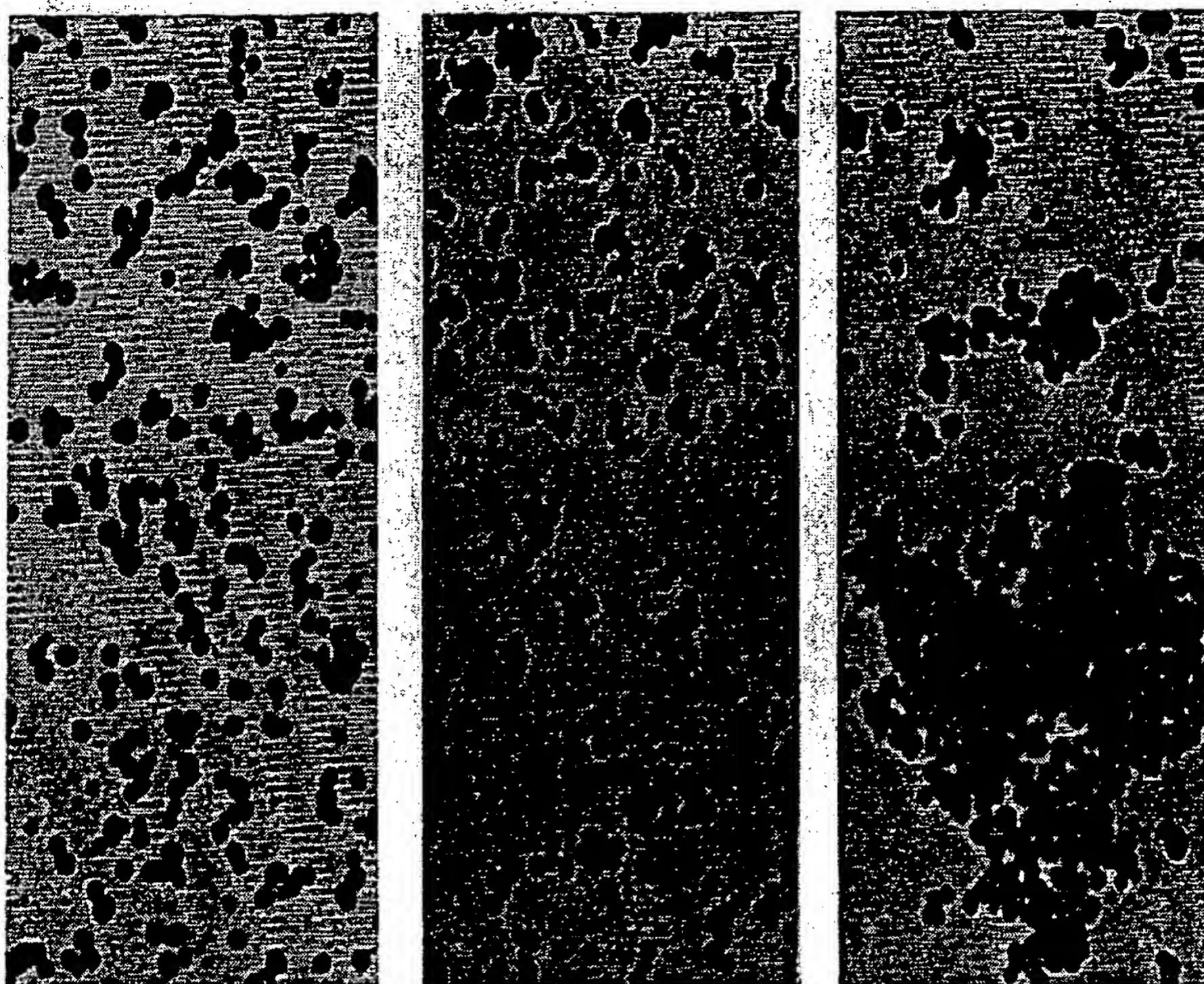
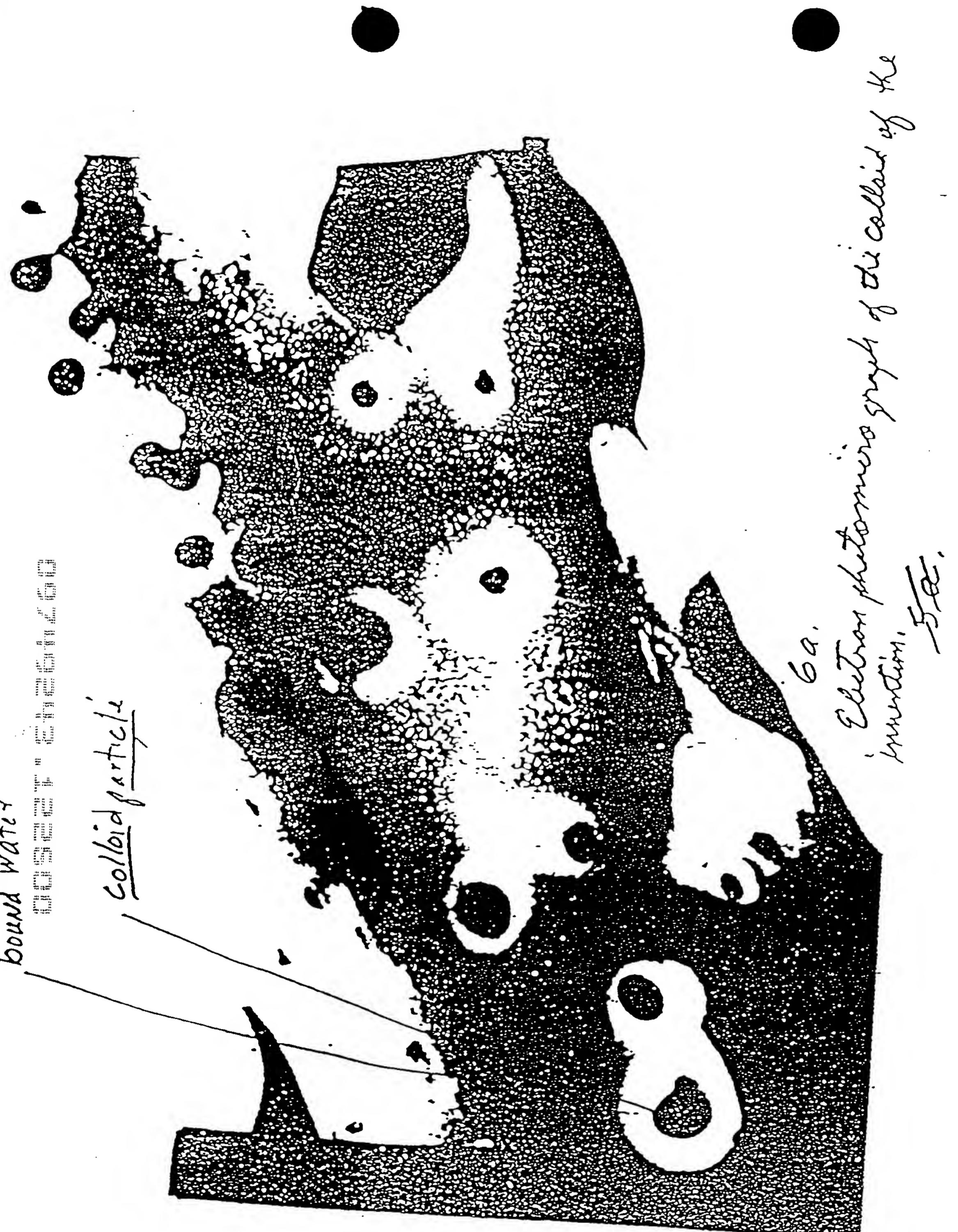


FIG. 26.—Electron micrographs showing stages of aggregation of 35 millimicron silica particles: *left*, colloidal aggregates; *center*, aggregates approaching colloidal size; *right*, supercolloidal aggregates or precipitate.

FIG. 6

bound water
colloid particle



6a.
Electron photomicrograph of the colloid of the
invention. 500.

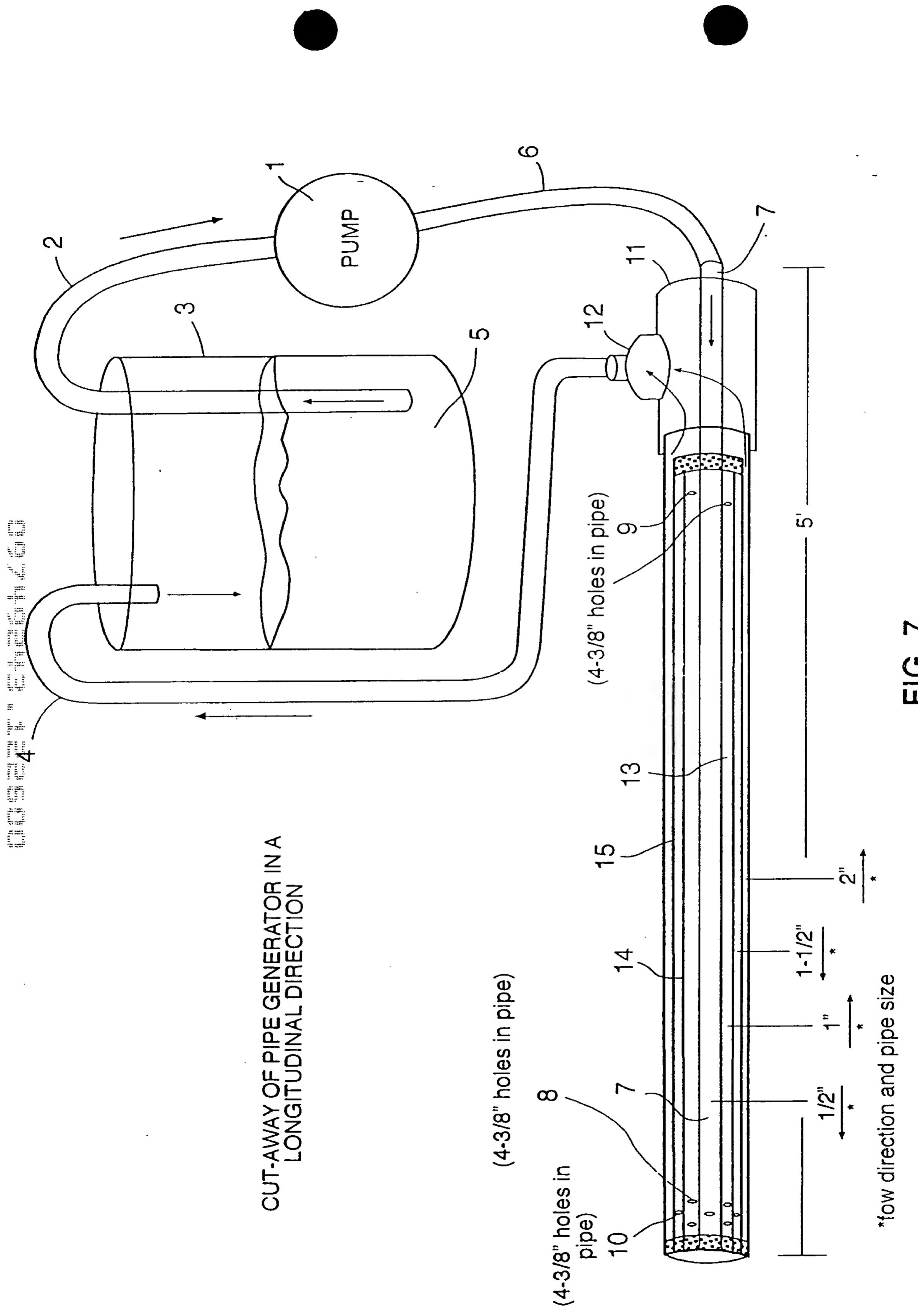
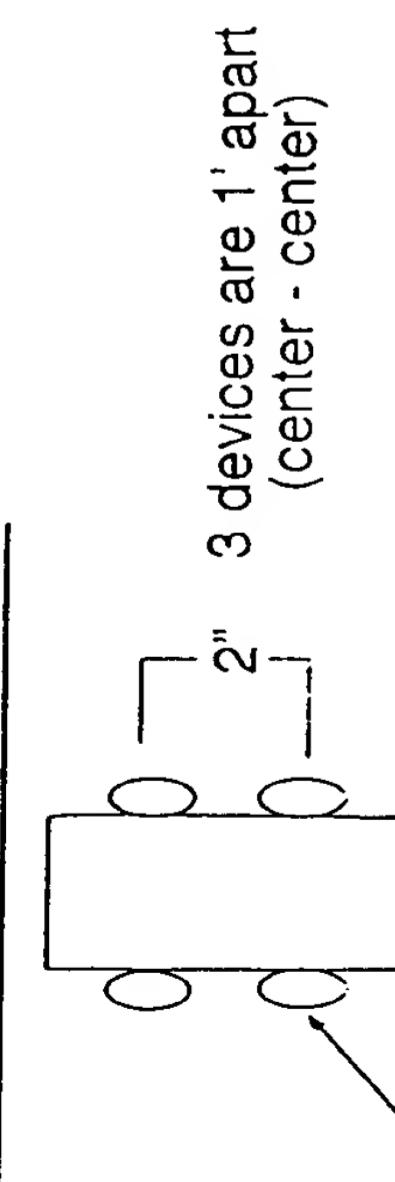


FIG. 7

1" magnets making up
aqua purge

SECTION OF GENERATOR



1" magnets making up
aqua purge

(A)

CUT-AWAY OF PIPE GENERATOR IN A
LONGITUDINAL DIRECTION

(4-3/8" holes in pipe)
8

(4-3/8" holes in
pipe)
10

15

13

14

7

10

(A)

12

11

10

(B)

(C)

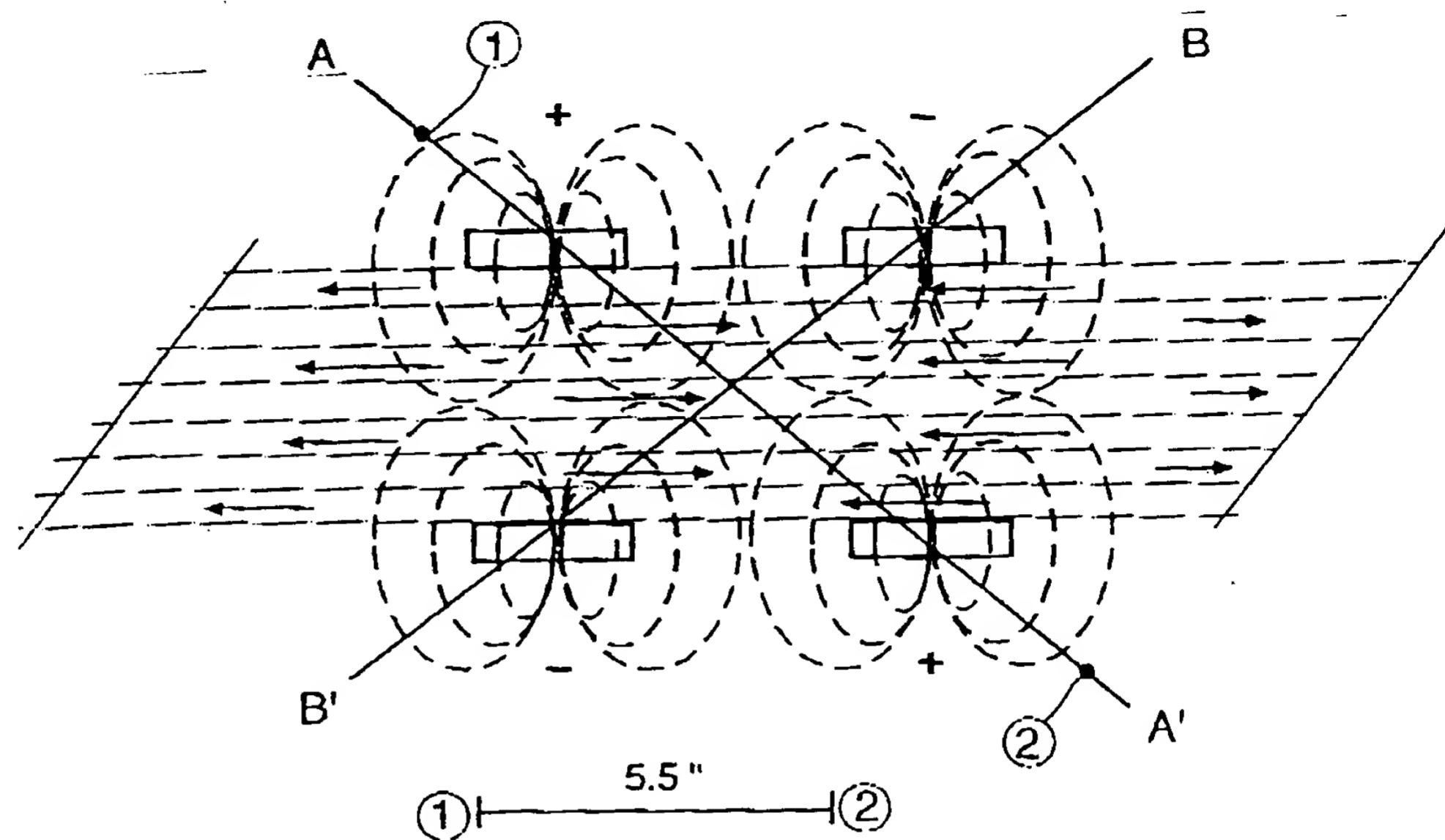
1/2" 1" 1-1/2" 2"

5'

*flow direction and pipe size

FIG. 8

Cross sectional view of counter current generator of the invention with lines A-A' and B-B' noted for measurement purposes.



Plot of Gradients in "z" axis

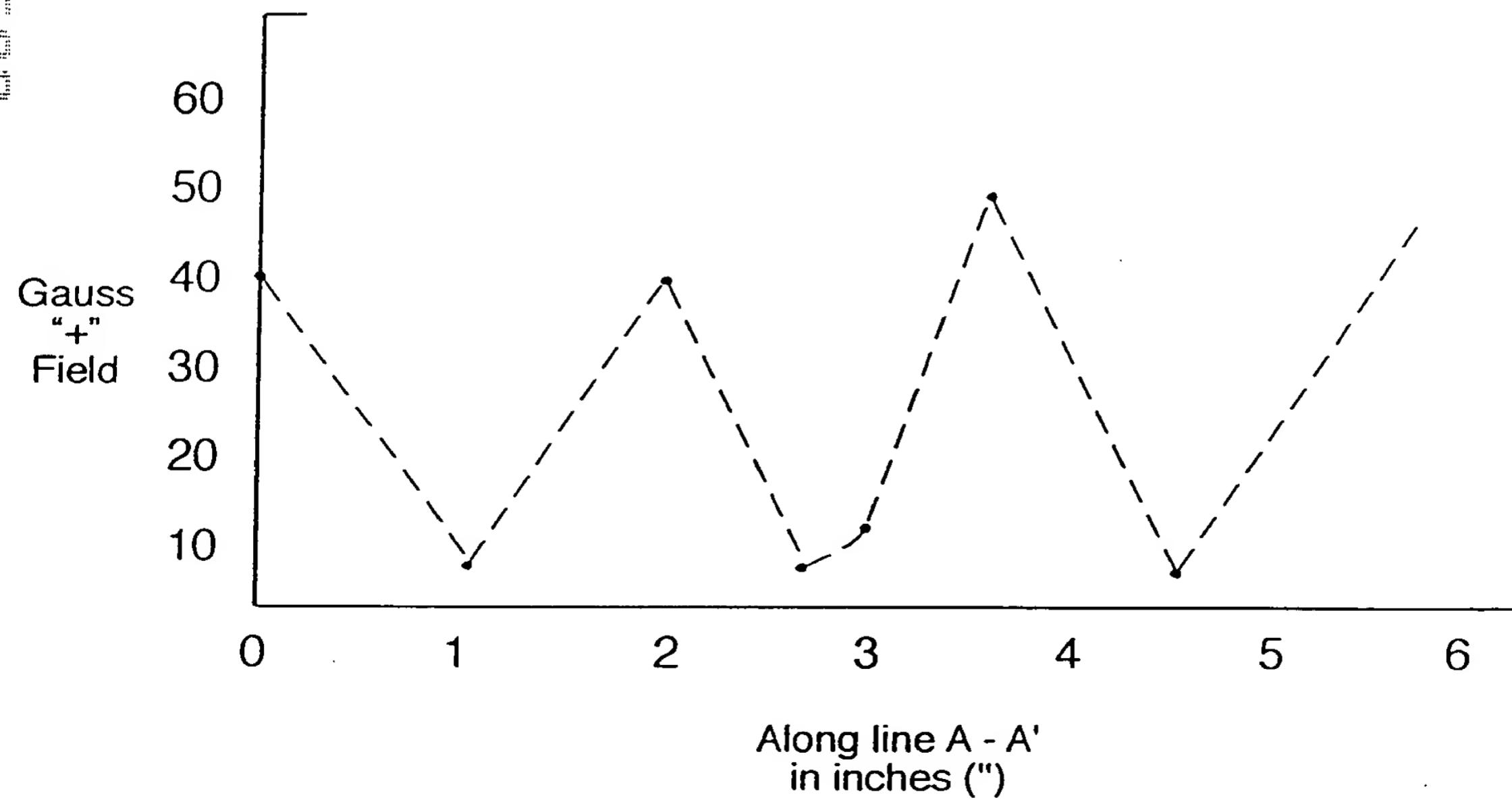


FIG. 9

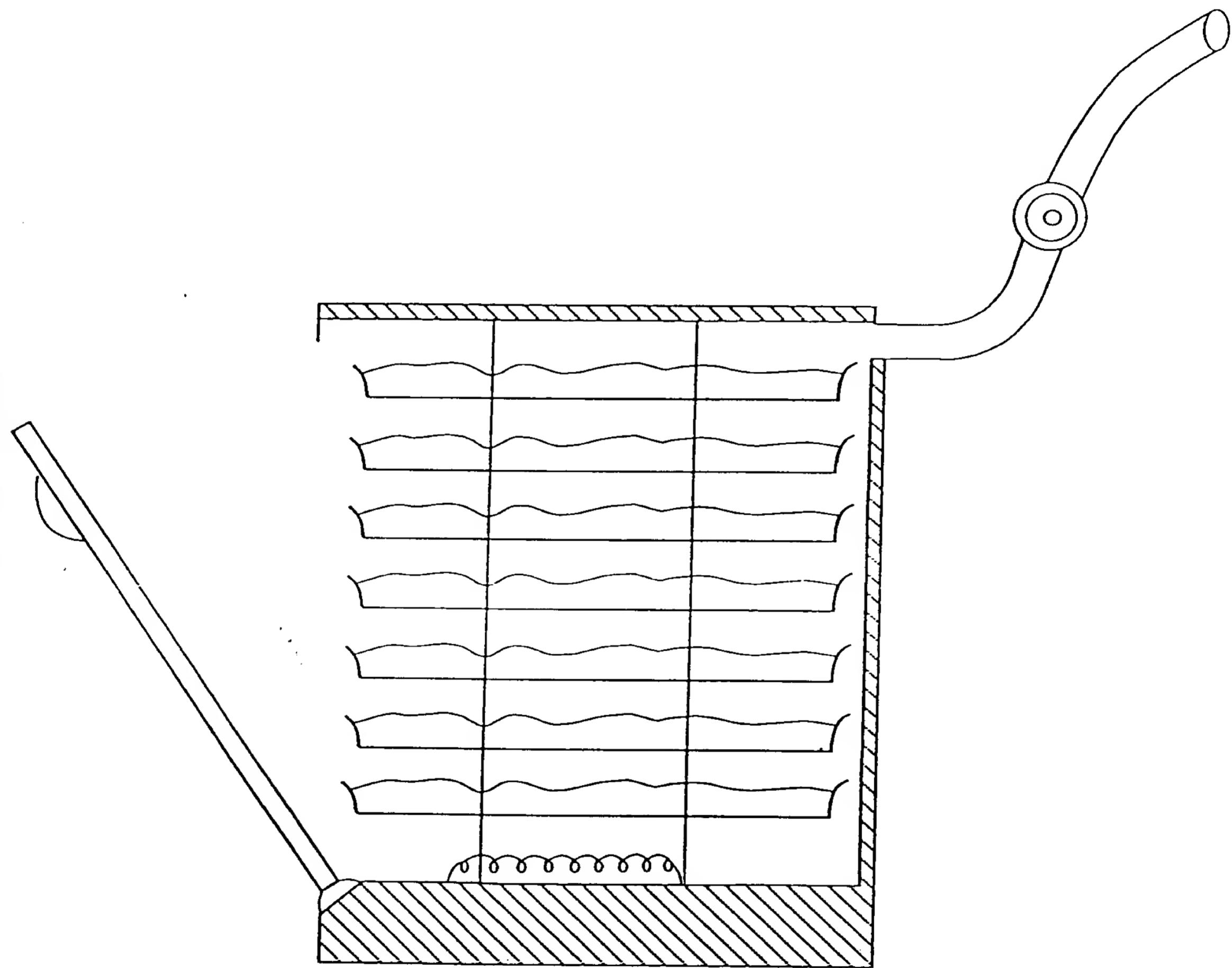


FIG. 10

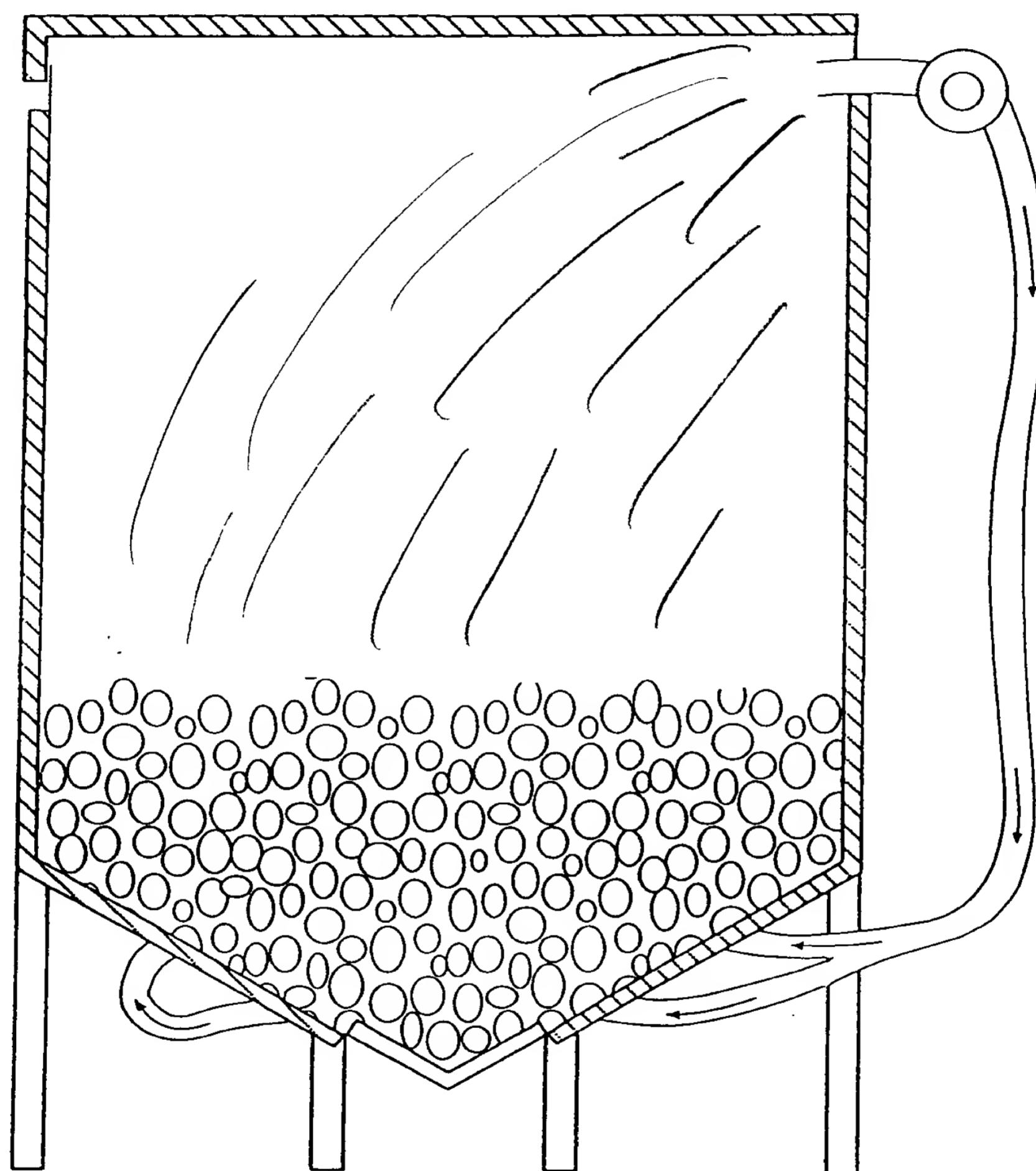


FIG. 11

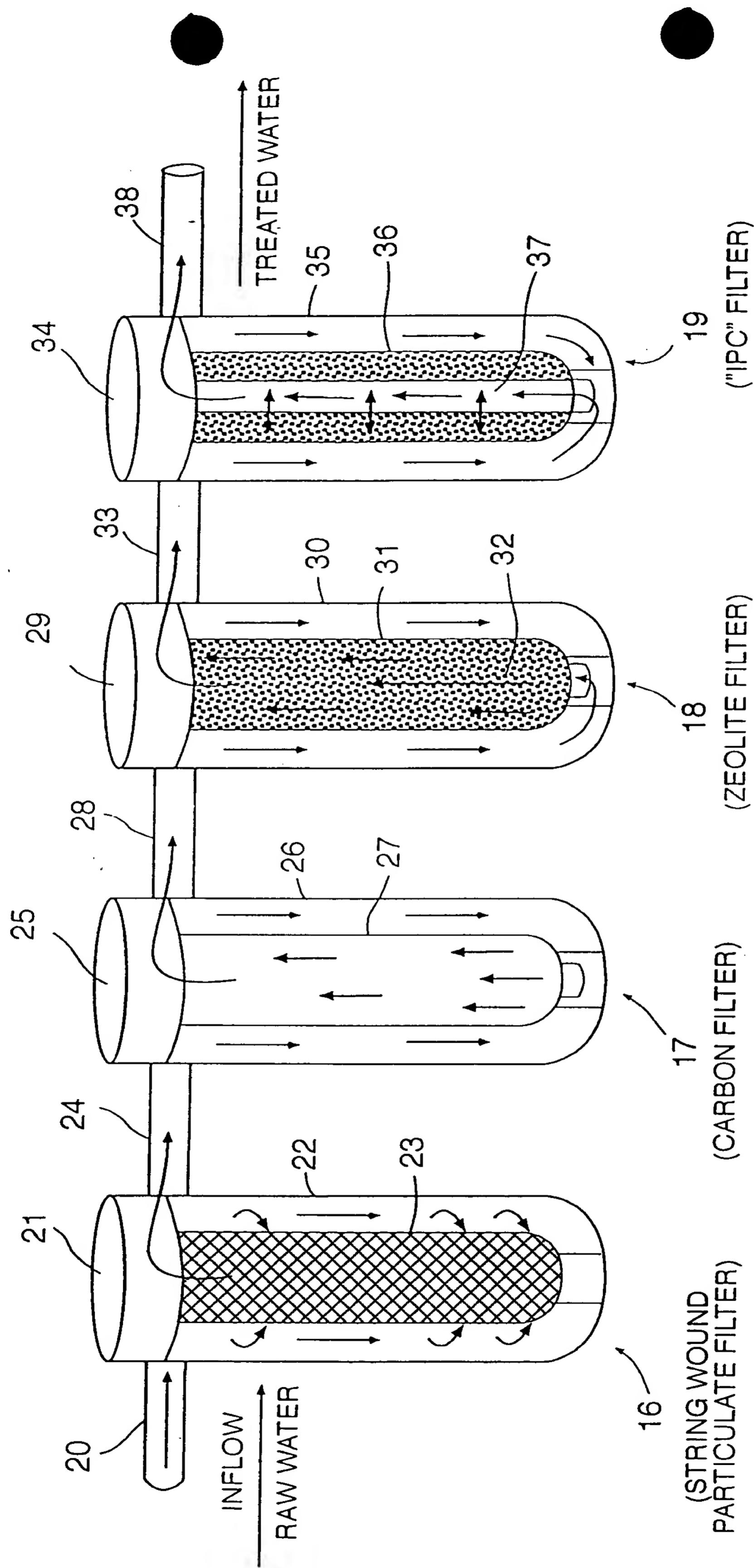


FIG. 12

HOME WATER SOFTENER,
WITH AUTOMATIC
CONTROLLER FOR
REGENERATION AND SERVICE

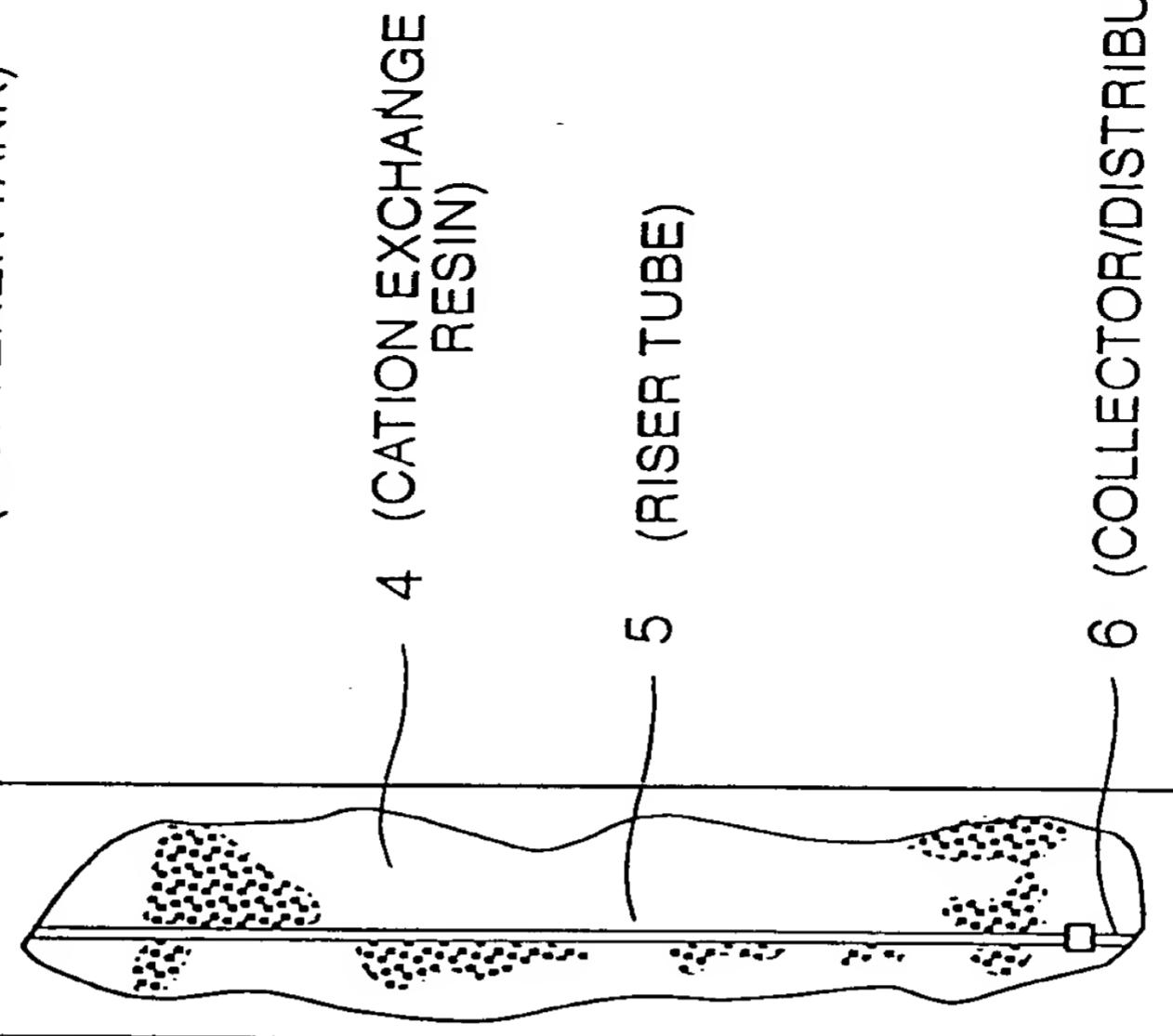
IPC CONVERSON

(CONTROL VALVE
MECHANISM)

1

(IPC LINE)

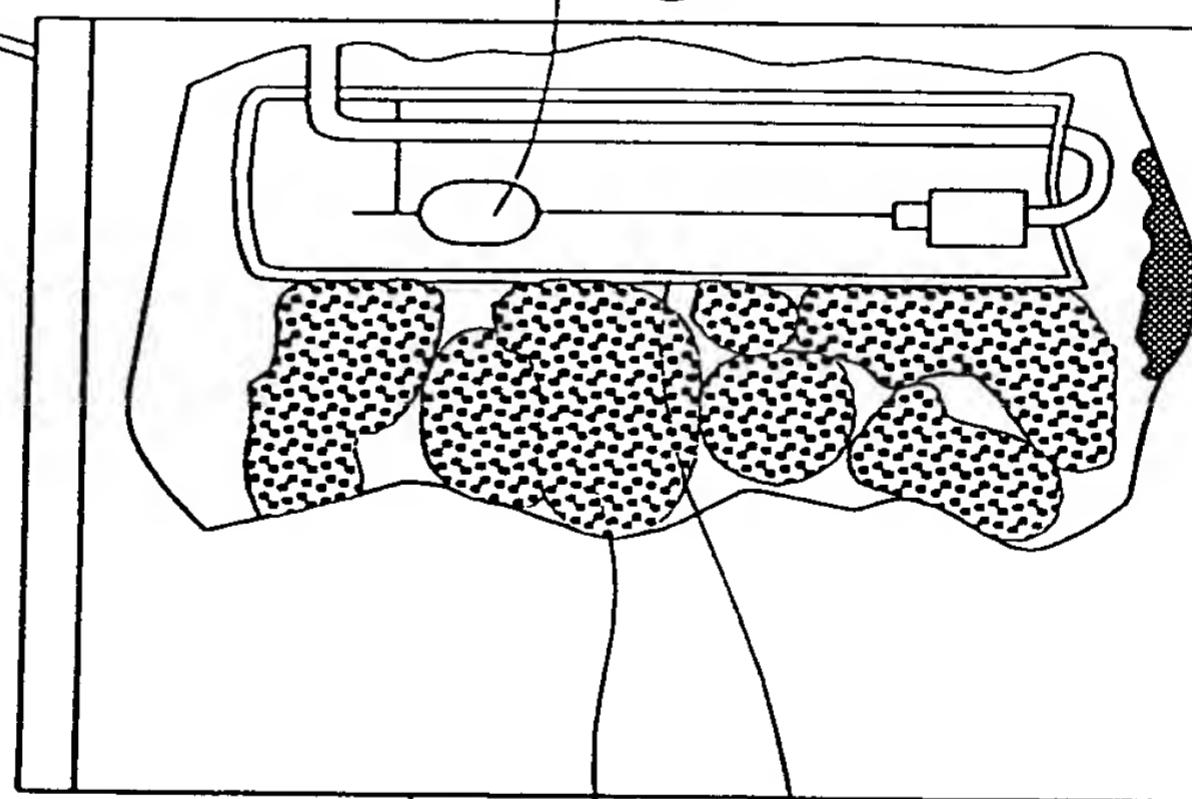
3 (SOFTENER TANK)



10
(IPC FLOAT
CONTROL)

8
(IPC BUNDLE
SUPPLY)

9
(IPC FLOAT WELL)

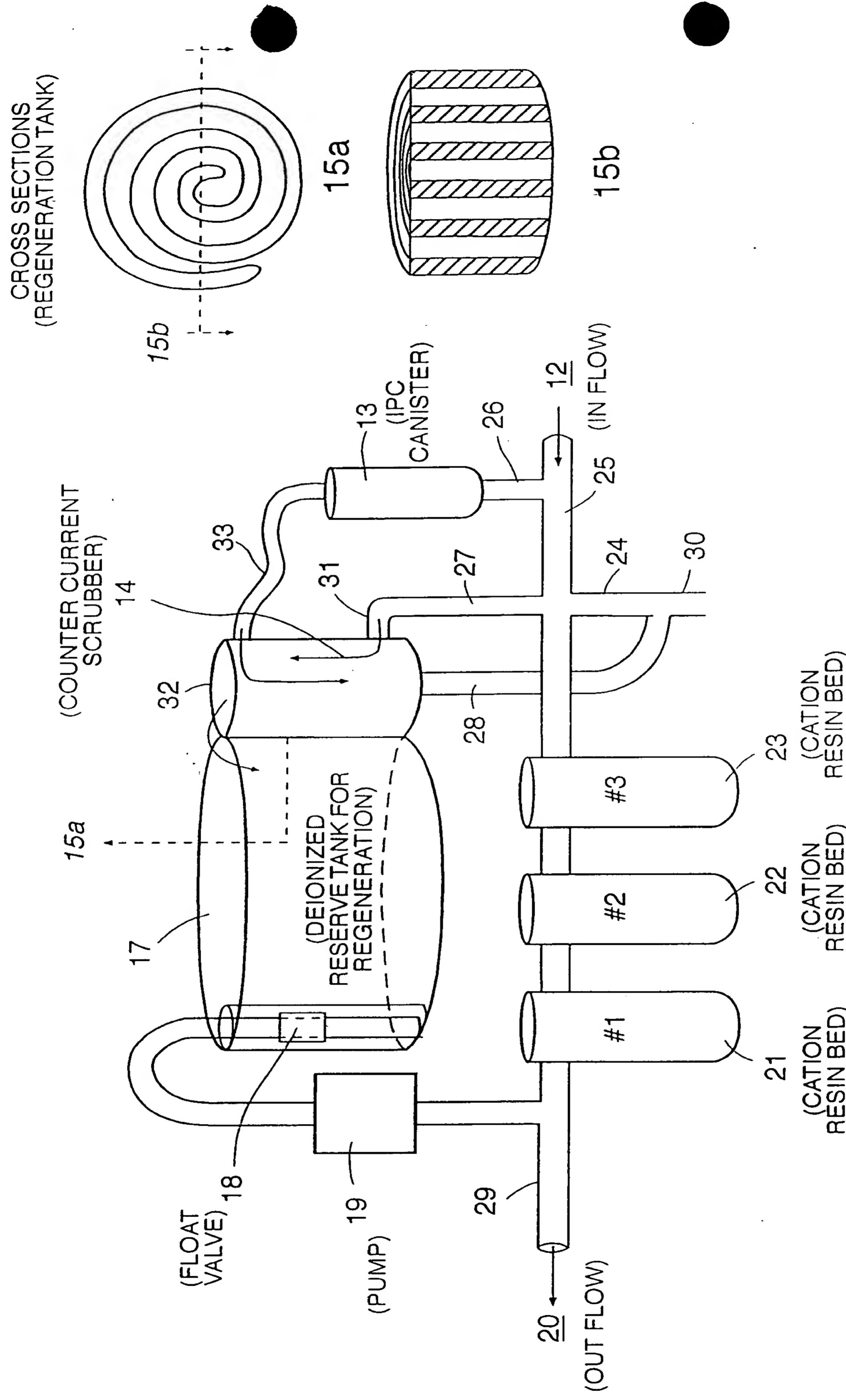


11
(IPC STORAGE TANK)

7
(IPC RESERVOIR)

6 (COLLECTOR/DISTRIBUTOR)

FIG. 14



15

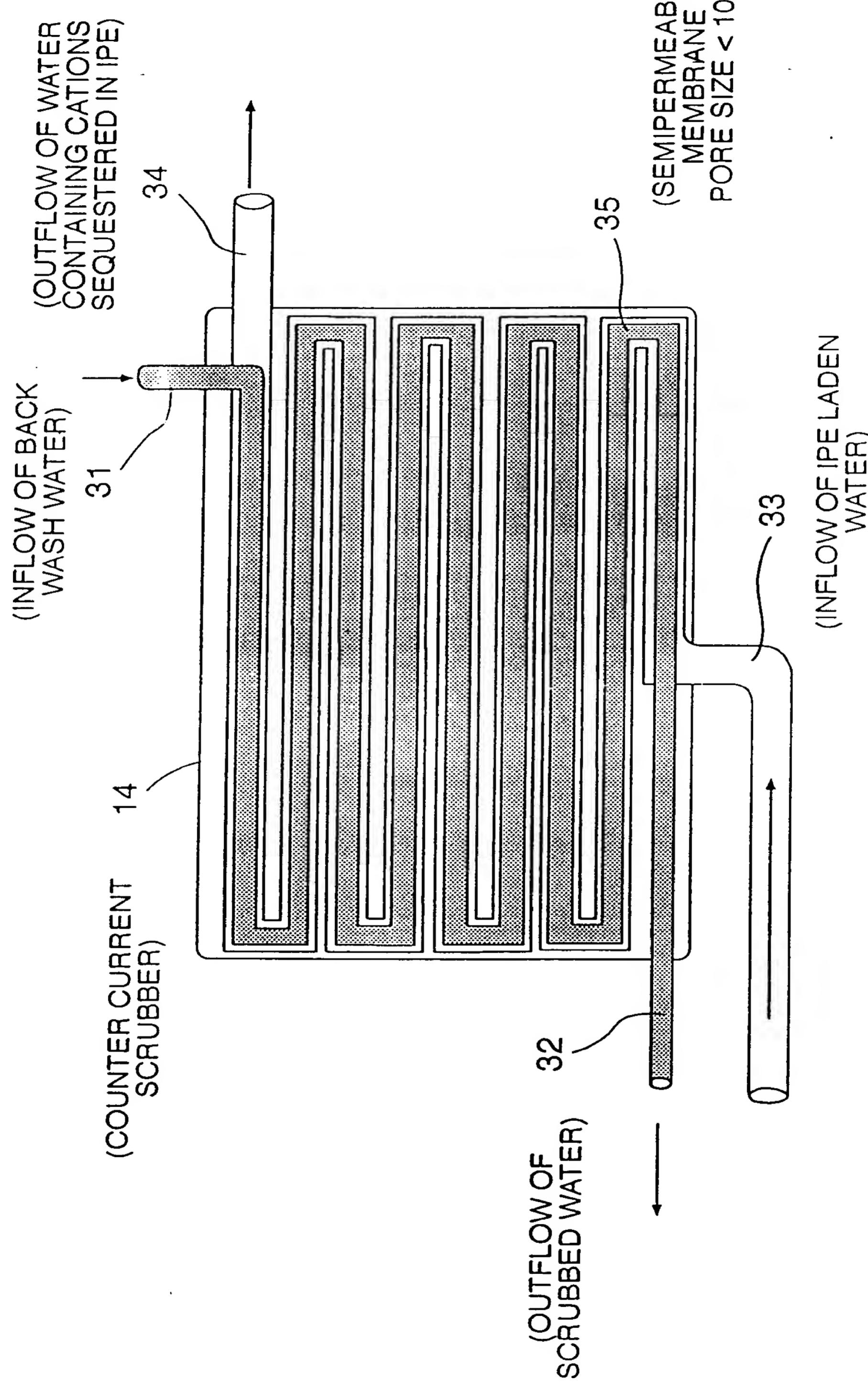
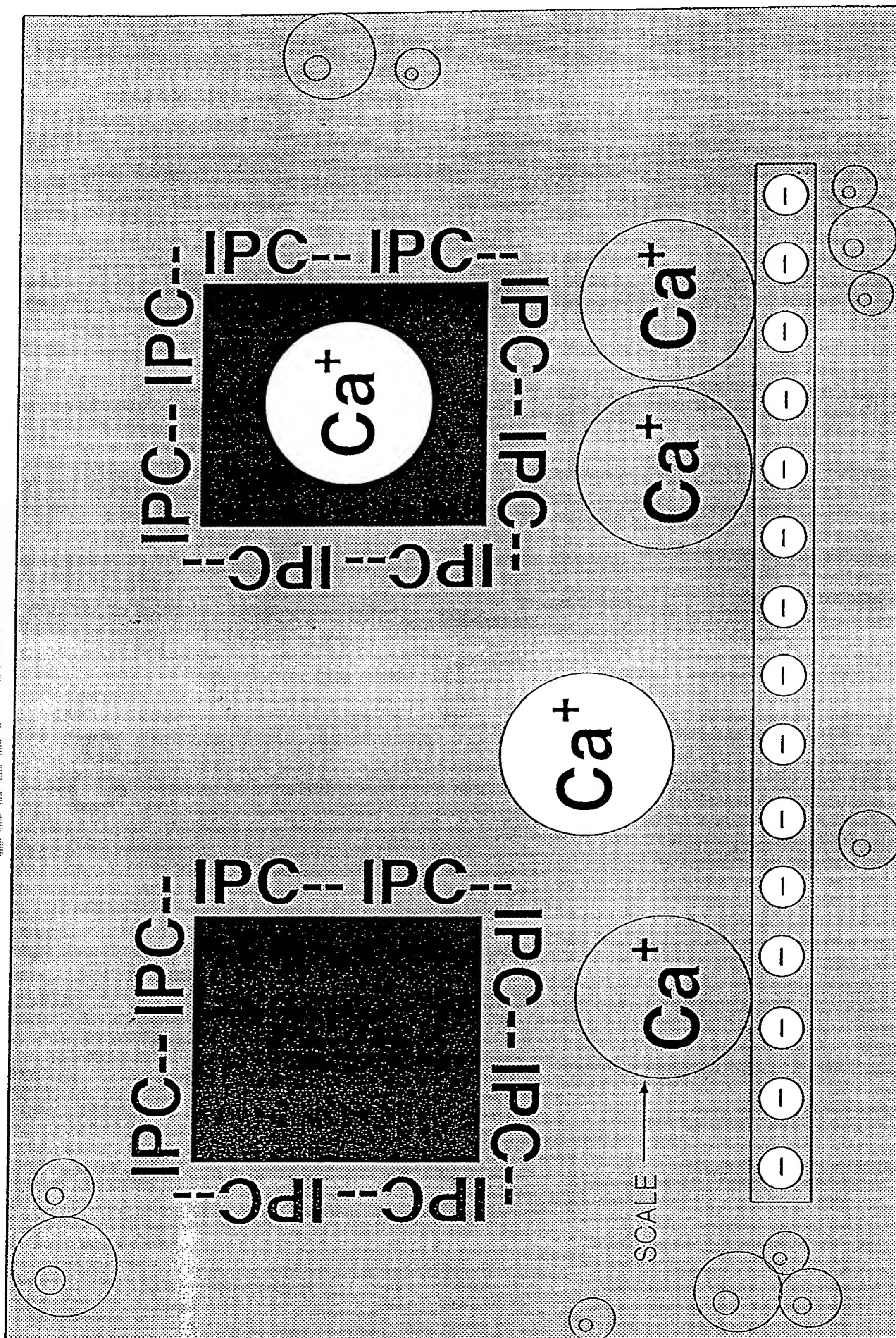


FIG. 16

FIG. 17



PERFORATED TUBE
FOR COLLECTING
PERMEATE

SALINE
WATER

REJECT BRINE

PERMEATE

DIRECTION OF FLOW
OF REJECT BRINE

SPACER

MEMBRANE

PERMEATE
COLLECTOR

MEMBRANE

LINE OF SEAM
CONNECTING TWO
MEMBRNES

SPACER

DIRECTION OF FLOW
OF SALINE WATER

DIRECTION OF FLOW
OF PERMEATE

FIG. 18

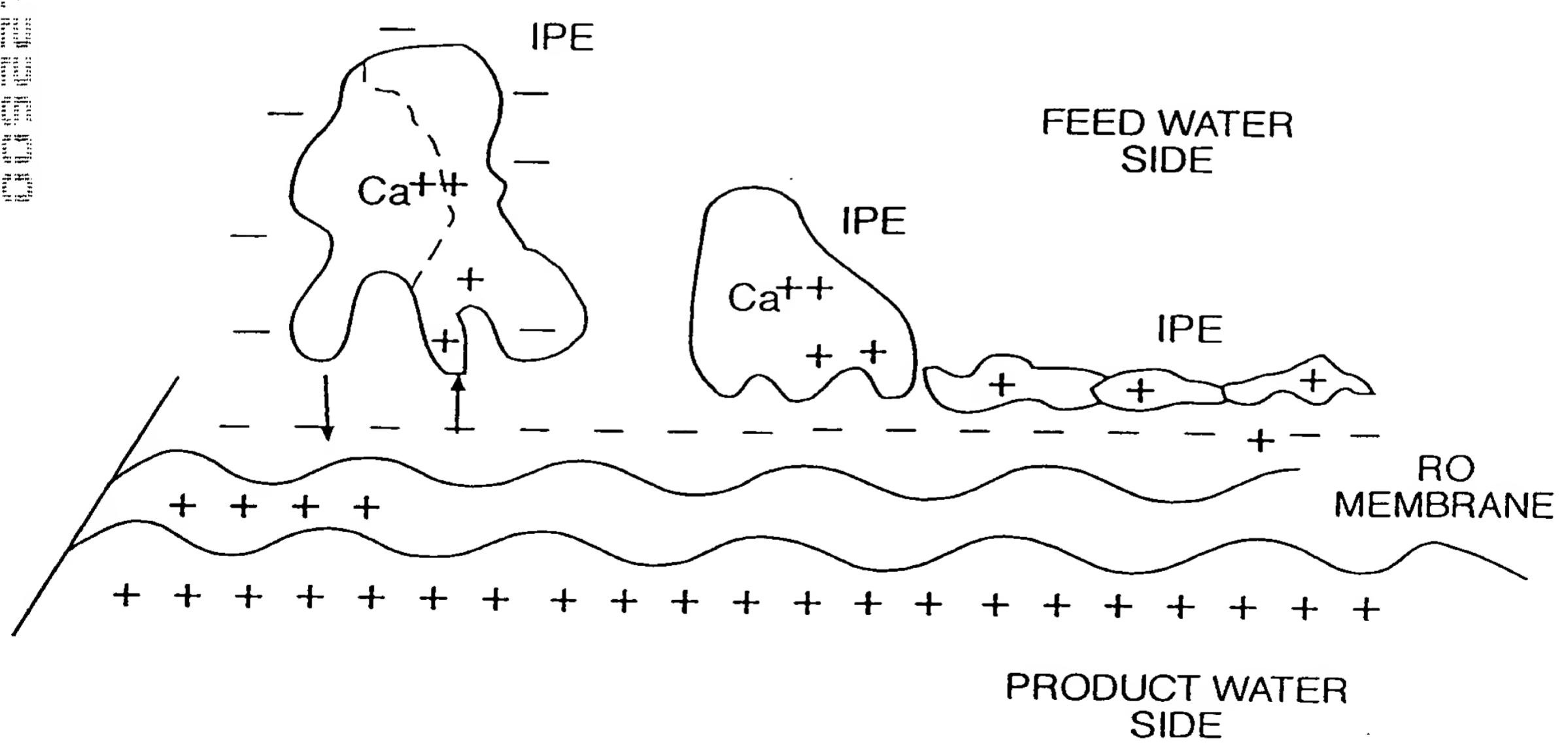
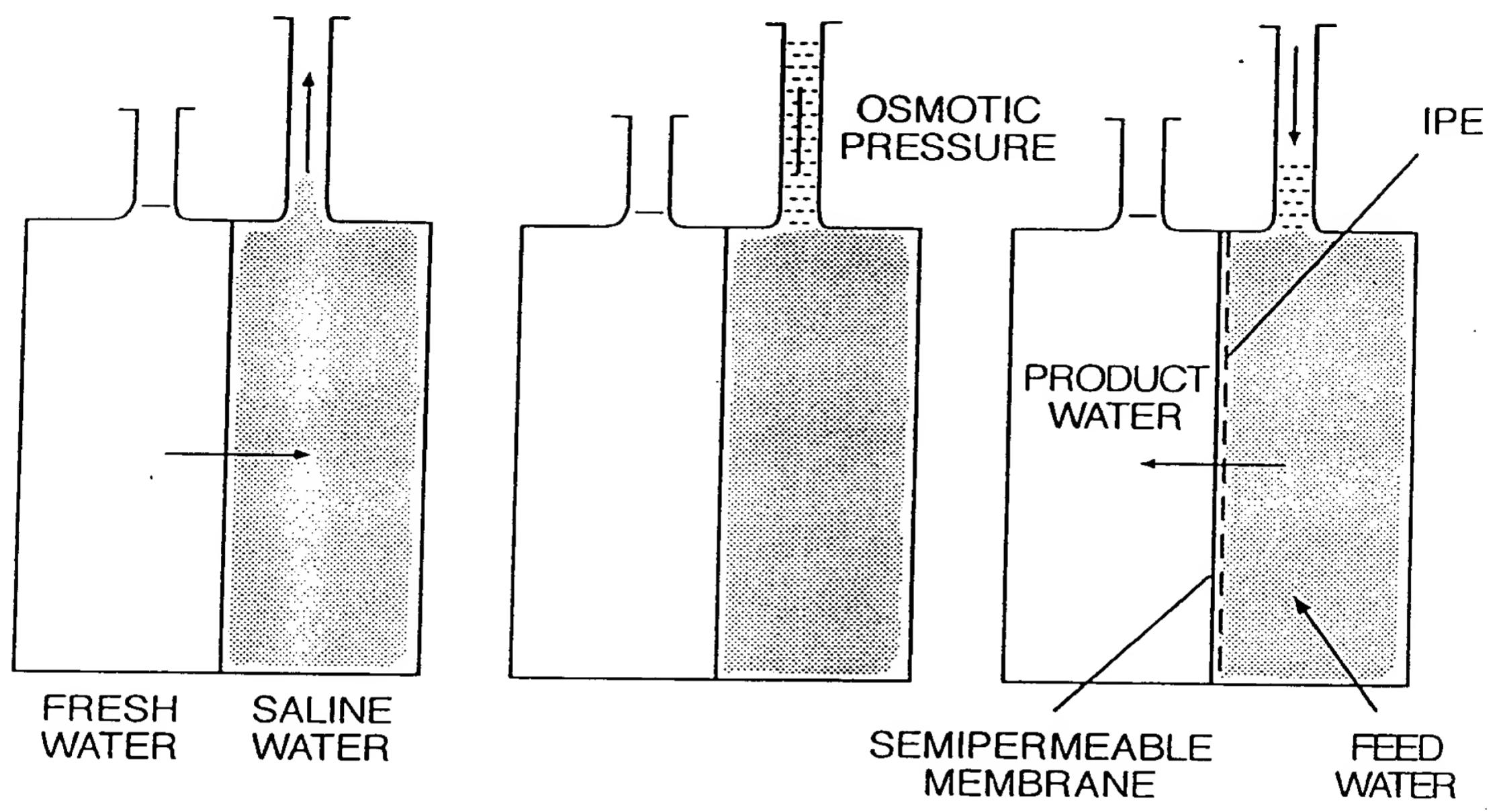


FIG. 19